

DISCHARGE AND GAGING STATIONS.apr.



RANCHO CALIFORNIA WATER DISTRICT

42135 Winchester Road - Temecula - CA - 92590 - (909) 296-6900

EXHIBIT

A



Planning and Capital Projects
Geographic Information Services

SUBJECT:

**Santa Rosa Water Reclamation Facility
Discharge Location
and Receiving Water Monitoring Stations**

SHEET

01

OF 1 SHEETS

PREPARED BY: L. Vineyard

SCALE: As Shown

Job #



October 16, 2002

2002 OCT 29 A 10:42

QUALITY
CONTROL BOARD

Board of Directors

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John Robertus, Executive Officer
State of California
**San Diego Regional Water
Quality Control Board**
9771 Clairemont Mesa Boulevard
Suite A
San Diego, CA 92124-1324

**SUBJECT: RANCHO CALIFORNIA WATER DISTRICT
COMPLIANCE WITH CEASE AND DESIST
ORDER NO. R9-2002-0212**

Officers:

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General Manager

Phillip L. Forbes
Director of Finance-
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Director of Engineering

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Director of Operations
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Linda M. Fregoso
District Secretary/Administrative
Services Manager

C. Michael Cowett
Best Best & Krieger LLP
General Counsel

Dear Mr. Robertus:

As you are well aware, on October 9, 2002, the Water Quality Control Board, San Diego Region (Regional Board), adopted Discharge Order No. R9-2002-0104 and Cease and Desist Order No. R9-2002-0212. This letter is intended to notify the Regional Board that to comply with the orders, Rancho California Water District (RCWD) will permanently cease discharging recycled water into Murrieta Creek on Friday, October 18, 2002.

As previously noted in our letter to the Regional Board dated October 1, 2002, the unreasonable discharge requirements for nutrient removal and the monitoring and reporting program under Order No. R9-2002-0104 and the Cease and Desist Order No. R9-2002-0212 effectively terminate RCWD's ability to discharge recycled water into Murrieta Creek.

In the course of future events, once the Regional Board develops a better understanding of the Santa Margarita watershed, RCWD may consider the opportunity to acquire a more realistic permit to discharge recycled water into Murrieta Creek.

If you have any questions or need additional information, please call Bob Lemons, Director of Engineering.

Sincerely,

RANCHO CALIFORNIA WATER DISTRICT



John F. Hennigar
General Manager

02JFH:BL:mc002\FEG

c: E. P. "Bob" Lemons, Director of Engineering
Ken Dealy, Director of Operations & Maintenance
Anthony J. Pack, General Manager, Eastern Municipal Water District
Keith Lewinger, General Manager, Fallbrook Public Utilities District
J. Scott Thomas, Director of Water Resources, Camp Pendleton
David Zappe, Chief Engineer, Riverside County Flood Control and Water Conservation District





**Rancho
Water**

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& Maintenance

Perry R. Louck
Controller

Linda M. Fregoso
District Secretary/Administrative
Services Manager

C. Michael Cowett
Best Best & Krieger LLP
General Counsel

November 26, 2002

ATTACHMENT 6(a)4

Michael P. McCann, Supervising Engineer
**San Diego Regional
Water Quality Control Board**
9174 Sky Park Court, Suite 100
San Diego, CA 92123

**SUBJECT: ORDER NO. R9-2002-0104 AND CEASE AND DESIST
ORDER NO. R9-2002-0212**

Dear Mr. McCann:

Rancho California Water District (RCWD) has reviewed your letter dated November 21, 2002 (copy enclosed) regarding the receipt of the monitoring reports for Order No. 96-54. This letter is intended to address only your comments regarding the termination of the recycled water discharge into Murrieta Creek.

RCWD's letter dated October 16, 2002 was intended to be a formal request for rescission of the subject orders and the corresponding monitoring and reporting program. Since the previous letter was insufficient, this letter is RCWD's formal request for the Regional Water Quality Control Board to rescind NPDES Order No. R9-2002-0104 (including the monitoring and reporting program) and CDO No. R9-2002-0212.

Verification of the wet weather treatment and disposal capacity of the Santa Rosa Water Reclamation Facility is already documented and permitted under NPDES Order No. 94-92 and subsequent addendums.

An existing flow diversion structure is located within the Santa Rosa Water Reclamation Facility that will prohibit the discharge of recycled water into Murrieta Creek. For more information regarding RCWD's existing flow diversion structure, please reference RCWD's Certification Report for the Santa Rosa Water Reclamation Facility.

RCWD strongly objects to the Regional Board's request for initiation of the receiving water monitoring in accordance with the Monitoring and Reporting Program for NPDES Order No. R9-2002-0104. Since RCWD has never initiated any discharge under NPDES Order No. R9-2002-0104, RCWD objects to performing monitoring work for a discharge that has not occurred. Until the Regional Board can provide more substantial information on why this

2002 DEC - 2 A
By: [Signature]
C. [Signature]
12/2

monitoring should occur, RCWD does not intend to initiate the receiving water monitoring, as required under NPDES Order No. R9-2002-0104.

If you have any questions or need additional information, please call me.

Sincerely,

RANCHO CALIFORNIA WATER DISTRICT



E. P. "Bob" Lemons, P.E.
Director of Engineering

02\BL:AW:mc012\FEG

c: John Hennigar, General Manager
Ken Dealy, Director of Operations & Maintenance





California Regional Water Quality Control Board

San Diego Region



Winston H. Hickox
Secretary for
Environmental
Protection

Internet Address: <http://www.swrcb.ca.gov/rwqcb9/>
9174 Sky Park Court, Suite 100, San Diego, California 92123
Phone (858) 467-2952 • FAX (858) 571-6972

RCWD	
Distribution Stamp	
With	
Attach	
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
Central Files	<input type="checkbox"/>
Copied and	
distributed by:	
Date	
Returned:	
Original	
Filed:	

Gray Davis
Governor

November 21, 2002

NOV 25 2002

Mr. Kenneth C. Dealy
Rancho California Water District
P.O. Box 9017
Temecula, CA 92589-9017

In Reply Refer to:
01-0601.01
MPM: BDK: cmc

Dear Mr. Dealy:

RE: RECEIPT OF MONITORING REPORTS FOR ORDER NO. 96-54, NPDES NO. CA0108821; SANTA ROSA WATER RECLAMATION FACILITY

This letter will acknowledge receipt of the April-September 2002 monthly monitoring reports, the April-June 2002 and July-September 2002 quarterly reports, and a revised copy of the 2002 annual QA/QC report, in accordance with the monitoring and reporting requirements of Order No. 96-54. Staff has the following comments on the subject reports:

July 2002 Monthly Monitoring Report

- Comments
 - Chlorine residual concentrations at the end of the chlorine contact chamber were below the minimum concentration (of 5.0 mg/L) on July 3 (4.6 mg/L) and 4 (3.5 mg/L), as required in Discharge Specification B.1.a of Order No. 96-54. According to supplemental information submitted on November 12 by Mr. Michael Calvert of your staff, there was no discharge to Murrieta Creek during those times.

August 2002 Monthly Monitoring Report

- Comments
 - Chlorine residual concentrations at the end of the chlorine contact chamber were below the minimum concentration (of 5.0 mg/L) on August 27 (4.0 mg/L), as required in Discharge Specification B.1.a of Order No. 96-54. According to supplemental information submitted on November 12 by Mr. Michael Calvert of your staff, there was no discharge to Murrieta Creek during that time.
 - Although reported as 8 mg/L, the monthly average (of 8 mg/L, 8 mg/L, 8 mg/L, and 10 mg/L) for effluent TOC is actually 8.5 mg/L, which would result in an exceedance of the monthly average limitation (8 mg/L). However, according to supplemental information submitted on November 12 by Mr. Michael Calvert of your staff, the actual values recorded were 7.9, 8.3, 7.9, and 9.6, which result in a monthly average of 8.425.

California Environmental Protection Agency

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at <http://www.swrcb.ca.gov>.

Recycled Paper



Staff has received your letter dated October 16, 2002 notifying this Regional Board of the District's intent to terminate the discharge of treated wastewater to Murrieta Creek, and has conducted a field visit to verify that the discharge has been terminated.

In order to rescind the newly adopted NPDES Order (No. R9-2002-0104) and accompanying Cease and Desist Order (R9-2002-0212), the following information must be submitted to this office:

- a formal request for rescission of the subject orders;
- verification that the wet weather treatment and disposal capacity of the facility can retain all reclaimed water throughout the year; and,
- a discussion of the safeguards that will be implemented to prevent a discharge of wastewater to Murrieta Creek.

Once the above information has been received, staff will recommend that the Board rescind NPDES Order No. R9-2002-0104 and CDO No. R9-2002-0212. In the interim, the District is required to continue monitoring and reporting in accordance with the existing orders. Influent and effluent monitoring is not required, provided that there is no discharge to Murrieta Creek. Monitoring forms for the influent and effluent must be submitted indicating no discharge. Additionally, receiving water monitoring must be conducted at all stations where there is flow. Reports should be submitted in accordance with the schedule on p. 49 of Monitoring and Reporting Program No. 2002-0104.

If you have any questions or concerns regarding the issues raised above, please contact Ms. Chiara Clemente of my staff at (858) 467-2359 or clemc@rb9.swrcb.ca.gov.

Respectfully,



MICHAEL P. McCANN
Supervising Engineer

V:

E:



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Best Best & Krieger LLP
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SAN DIEGO REGIONAL
WATER QUALITY
CONTROL BOARD

2003 FEB -5 P 1:07

ATTACHMENT 6(a) 5

February 4, 2003

Chiara Clemente, Environmental Scientist
**San Diego Regional Water
Quality Control Board**
9174 Sky Park Court
Suite 100*
San Diego, CA 92123

**SUBJECT: RENEWAL OF LIVE STREAM DISCHARGE PERMIT
[PROJECT NO. PG065]**

Dear Ms. Clemente:

Pursuant to our telephone conversation regarding rescission of NPDES Order No. R9-2002-0104 and CDO No. R9-2002-0212, enclosed for your information is the Rancho California Water District (RCWD) *Report of Waste Discharge* dated August 1999. As described in the Report of Waste Discharge, the existing RCWD storage ponds have a capacity of 4.99 million gallons per day (MGD) for eighty-four (84) days of recycled water storage. In addition, RCWD has two (2) percolation ponds located at the Santa Rosa Water Reclamation Facility, which have the capability of 1.0 MGD of percolation capacity.

If you should have any questions or need additional information, please call me.

Sincerely,

RANCHO CALIFORNIA WATER DISTRICT

Andrew L. Webster, P.E.
Planning & Capital Projects Manager

03\AW:at008\PG065

Enclosure



**Rancho
Water**

RANCHO CALIFORNIA

REPORT OF WASTE DISCHARGE

Request for Revision of Order No. 94-92

Santa Rosa Water Reclamation Facility

*Proposed Flow Increase
Reclaimed Water Treatment and Reuse*

WATER DISTRICT

AUGUST 1999

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State of California Form 200

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Part I
State of California Form 200



State of California
Regional Water Quality Control Board
APPLICATION/REPORT OF WASTE DISCHARGE
GENERAL INFORMATION FORM FOR
WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT

**I. FACILITY INFORMATION****A. Facility:**

Name: Santa Rosa Water Reclamation Facility			
Address: 26266 Washington Avenue			
City: Murrieta	County: Riverside	State: CA	Zip Code: 92562
Contact Person: John F. Hennigar, General Manager		Telephone Number: N/A	

B. Facility Owner:

Name: Rancho California Water District			Owner Type (Check One) 1. <input type="checkbox"/> Individual 2. <input type="checkbox"/> Corporation 3. <input checked="" type="checkbox"/> Governmental Agency 4. <input type="checkbox"/> Partnership 5. <input type="checkbox"/> Other: _____	
Address: 42135 Winchester Road				
City: Temecula	State: CA	Zip Code: 92589-9017		
Contact Person: John F. Hennigar, General Manager		Telephone Number: (909) 676-4101	Federal Tax ID:	

C. Facility Operator (The agency or business, not the person):

Name: Rancho California Water District			Operator Type (Check One) 1. <input type="checkbox"/> Individual 2. <input type="checkbox"/> Corporation 3. <input checked="" type="checkbox"/> Governmental Agency 4. <input type="checkbox"/> Partnership 5. <input type="checkbox"/> Other: _____	
Address: 42135 Winchester Road				
City: Temecula	State: CA	Zip Code: 92589-9017		
Contact Person: John F. Hennigar, General Manager		Telephone Number: (909) 676-4101		

D. Owner of the Land:

Name: Rancho California Water District			Owner Type (Check One) 1. <input type="checkbox"/> Individual 2. <input type="checkbox"/> Corporation 3. <input checked="" type="checkbox"/> Governmental Agency 4. <input type="checkbox"/> Partnership 5. <input type="checkbox"/> Other: _____	
Address: 42135 Winchester Road				
City: Temecula	State: CA	Zip Code: 92589-9017		
Contact Person: John F. Hennigar, General Manager		Telephone Number: (909) 676-4101		

E. Address Where Legal Notice May Be Served:

Address: 42135 Winchester Road		
City: Temecula	State: CA	Zip Code: 92589-9017
Contact Person: John F. Hennigar, General Manager		Telephone Number: (909) 676-4101

F. Billing Address:

Address: 42135 Winchester Road		
City: Temecula	State: CA	Zip Code: 92589-9017
Contact Person: John F. Hennigar, General Manager		Telephone Number: (909) 676-4101



APPLICATION/REPORT OF WASTE DISCHARGE GENERAL INFORMATION FORM FOR WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT



II. TYPE OF DISCHARGE

Check Type of Discharge(s) Described in this Application (A or B):

☒ A. WASTE DISCHARGE TO LAND

☐ B. WASTE DISCHARGE TO SURFACE WATER

Check all that apply:

☒ Domestic/Municipal Wastewater Treatment and Disposal

☐ Cooling Water

☐ Mining

☐ Waste Pile

☐ Wastewater Reclamation

☐ Other, please describe: _____

☐ Animal Waste Solids

☐ Land Treatment Unit

☐ Dredge Material Disposal

☐ Surface Impoundment

☐ Industrial Process Wastewater

☐ Animal or Aquacultural Wastewater

☐ Biosolids/Residual

☐ Hazardous Waste (see instructions)

☐ Landfill (see instructions)

☐ Storm Water

III. LOCATION OF THE FACILITY

Describe the physical location of the facility.

1. Assessor's Parcel Number(s)

Facility: 909-060-014,015,042

Discharge Point: N/A

2. Latitude

Facility: 33° 41' 46"

Discharge Point: N/A

3. Longitude

Facility: 117° 11' 03"

Discharge Point: N/A

IV. REASON FOR FILING

☐ New Discharge or Facility

☐ Changes in Ownership/Operator (see instructions)

☐ Change in Design or Operation

☐ Waste Discharge Requirements Update or NPDES Permit Reissuance

☒ Change in Quantity/Type of Discharge ☐ Other: _____

V. CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

Name of Lead Agency: Rancho California Water District

Has a public agency determined that the proposed project is exempt from CEQA? ☐ Yes ☒ No

If Yes, state the basis for the exemption and the name of the agency supplying the exemption on the line below.

Basis for Exemption/Agency: N/A

Has a "Notice of Determination" been filed under CEQA? ☒ Yes ☐ No

If Yes, enclose a copy of the CEQA document, Environmental Impact Report, or Negative Declaration. If no, identify the expected type of CEQA document and expected date of completion.

See Attached Notice of Determination (Part III of this report)

Expected CEQA Documents:

☒ EIR

☐ Negative Declaration

Expected CEQA Completion Date: N/A



APPLICATION/REPORT OF WASTE DISCHARGE GENERAL INFORMATION FORM FOR WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT



VI. OTHER REQUIRED INFORMATION

Please provide a COMPLETE characterization of your discharge. A complete characterization includes, but is not limited to, a list of constituents and the discharge concentration of each constituent, a list of other appropriate waste discharge characteristics, a description and schematic drawing of all treatment processes, a description of any Best Management Practices (BMPs) used, and a description of disposal methods.

Also include a site map showing the location of the facility and, if you are submitting this application for an NPDES permit, identify the surface water to which you propose to discharge. Please try to limit your maps to a scale of 1:24,000 (7.5' USGS Quadrangle) or a street map, if more appropriate.

VII. OTHER

Attach additional sheets to explain any responses which need clarification. List attachments with titles and dates below:

See attached report of waste discharge

You will be notified by a representative of the RWQCB within 30 days of receipt of your application. The notice will state if your application is complete or if there is additional information you must submit to complete your Application/Report of Waste Discharge, pursuant to Division 7, Section 13260 of the California Water Code.

VIII. CERTIFICATION

"I certify under penalty of law that this document, including all attachments and supplemental information, were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Print Name: John F. Hennigar

Title: General Manager

Signature: _____

Date: _____

FOR OFFICE USE ONLY

Date Form 200 Received:	Letter to Discharger	Fee Amount Received:	Check #:
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Part II
Report of Waste Discharge

REPORT OF WASTE DISCHARGE

Rancho California Water District

OVERVIEW

Rancho California Water District (RCWD) purveys reclaimed water to qualified customers within the RCWD service area through a regional reclaimed water distribution network. The RCWD water reclamation program is regulated by Regional Board Order No. 94-92 and Addendum No. 1, thereto. Order No. 94-92, *Waste Discharge Requirements for the Rancho California Water District Wastewater Reclamation Facilities, Riverside County* was adopted by the Regional Board on August 11, 1994. Addendum No. 1 to Order No. 94-92 was adopted by the Regional Board on May 21, 1997. Order No. 94-92 and Addendum No. 1 establish:

- 1) requirements for the discharge of up to 2.45 mgd of Santa Rosa WRF reclaimed water to land (through percolation pond discharges to groundwater and through reclaimed water irrigation),
- 2) requirements and conditions under which RCWD can purvey reclaimed water to qualified customers within the RCWD service area, and
- 3) a 11,200 acre-feet per year maximum limit on the amount of reclaimed water that can be annually distributed within the RCWD service area.

Additionally, Order No. 94-92 and Addendum No. 1 thereto note that a portion of the reclaimed water purveyed by RCWD within the District service area is derived from the Eastern Municipal Water District (EMWD) Temecula Valley WRF. RCWD is the designated purveyor of the EMWD reclaimed water within the RCWD service area, but EMWD is responsible for the effluent quality. The EMWD Temecula Valley WRF effluent quality is regulated Regional Board Order No. 94-97, *Waste Discharge Requirements for the Eastern Municipal Water District Temecula Valley Wastewater Reclamation Facility, Riverside County*. (While EMWD makes a portion of the Temecula Valley WRF reclaimed water available to RCWD, the remainder of the EMWD reclaimed water is exported by EMWD to locations outside the RCWD service area.)

Several key RCWD facilities changes have occurred since the adoption of Order No. 94-92. In 1994, RCWD completed work to expand the capacity of the Santa Rosa WRF to 5.0 mgd. On December 8, 1994, RCWD submitted a certification report to the Regional Board (*Santa Rosa Water Reclamation Certification Report*) which documented that the secondary and tertiary treatment capacity of the Santa Rosa WRF was 5.0 mgd.

Also subsequent to the adoption of Order No. 94-92, RCWD completed additional treatment facilities required to implement a reclaimed water stream discharge to Murrieta Creek. In 1996, the Regional Board issued Order No. 96-54 (NPDES CA0108821), *Waste Discharge Requirements for the Rancho California Water District Santa Rosa Water Reclamation Facility, Riverside County*. Order No. 96-54 established requirements for the discharge of up to 2.0 mgd of highly treated reclaimed water from the Santa Rosa WRF to Murrieta Creek.

Under current Regional Board Orders, RCWD is allowed to treat up to 4.45 mgd at the Santa Rosa WRF. Up to 2.0 mgd of this flow can be discharged to Murrieta Creek per the requirements of Order No. 96-54 (NPDES CA0108821), and up to 2.45 mgd can be discharged to land (irrigation use, industrial use, or groundwater percolation) per the requirements of Order No. 94-92 and Addendum No. 1 thereto.

REQUEST FOR MODIFICATION OF ORDER NO. 94-92

In August 1999, RCWD initiated construction of a new reclaimed water storage pond (Pond No. 4). With the completion of Pond No. 4, total RCWD seasonal reclaimed water storage capacity at SRWRF will be approximately 1,150 acre-feet. An additional 135 acre-feet of storage capacity is provided near the former site of the RCWD Joaquin Ranch WRF. This total 1,285 acre-foot storage pond capacity would provide 84 days storage for a reclaimed water production capacity of 4.99 mgd. (The Basin Plan requires 84 days of seasonal storage for reclaimed water irrigation projects in which alternate means of disposal are not available).

In addition to the storage capacity, percolation pond disposal capacity of RCWD facilities is at least 1.0 mgd. (Regional Board Order No. 87-125 and Addendum No. 1 thereto established waste discharge requirements for a 1.0 mgd reclaimed water percolation operation at SRWRF, and the current RCWD ponds are significantly larger in surface area than those regulated by Order No. 87-125.) The combination of increased storage pond capacity (to a total of 1,285 acre-feet), and the RCWD percolation pond capacity (approximately 1.0 mgd) would allow RCWD to easily handle 5.0 mgd of reclaimed water production from Santa Rosa WRF, even in the event of temporary suspension of the 2.0 mgd stream discharge to Murrieta Creek.

To more effectively utilize and manage RCWD's reclaimed water resources, RCWD requests that the Regional Board modify Order No. 94-92 to allow up to 5.0 mgd of Santa Rosa WRF reclaimed water to be diverted to RCWD reclaimed water use facilities. The objective of this request is to provide greater flexibility in RCWD's use and management of reclaimed water resources within the RCWD service area. Order No. 94-92 currently limits total reclaimed water use within the RCWD service area to 11,200 acre-feet per year, and no increase in this annual limit is proposed. By increasing the Santa Rosa WRF reclaimed water flow limit to 5.0 mgd, however, RCWD would have significantly greater flexibility in dealing with circumstances where (1) the stream discharge must be temporarily suspended, or (2) insufficient EMWD reclaimed water flows are available to meet anticipated reclaimed water demands within RCWD's service area.

The requested flow modification is only for Order No. 94-92. No modification of Order No. 96-54 (NPDES CA0108821) is proposed. It is RCWD's intention to maintain the Murrieta Creek 2.0 mgd stream discharge (as regulated in Order No. 96-54) except during conditions when plant maintenance or effluent quality non-compliance conditions dictate the need to temporarily suspend the stream discharge.

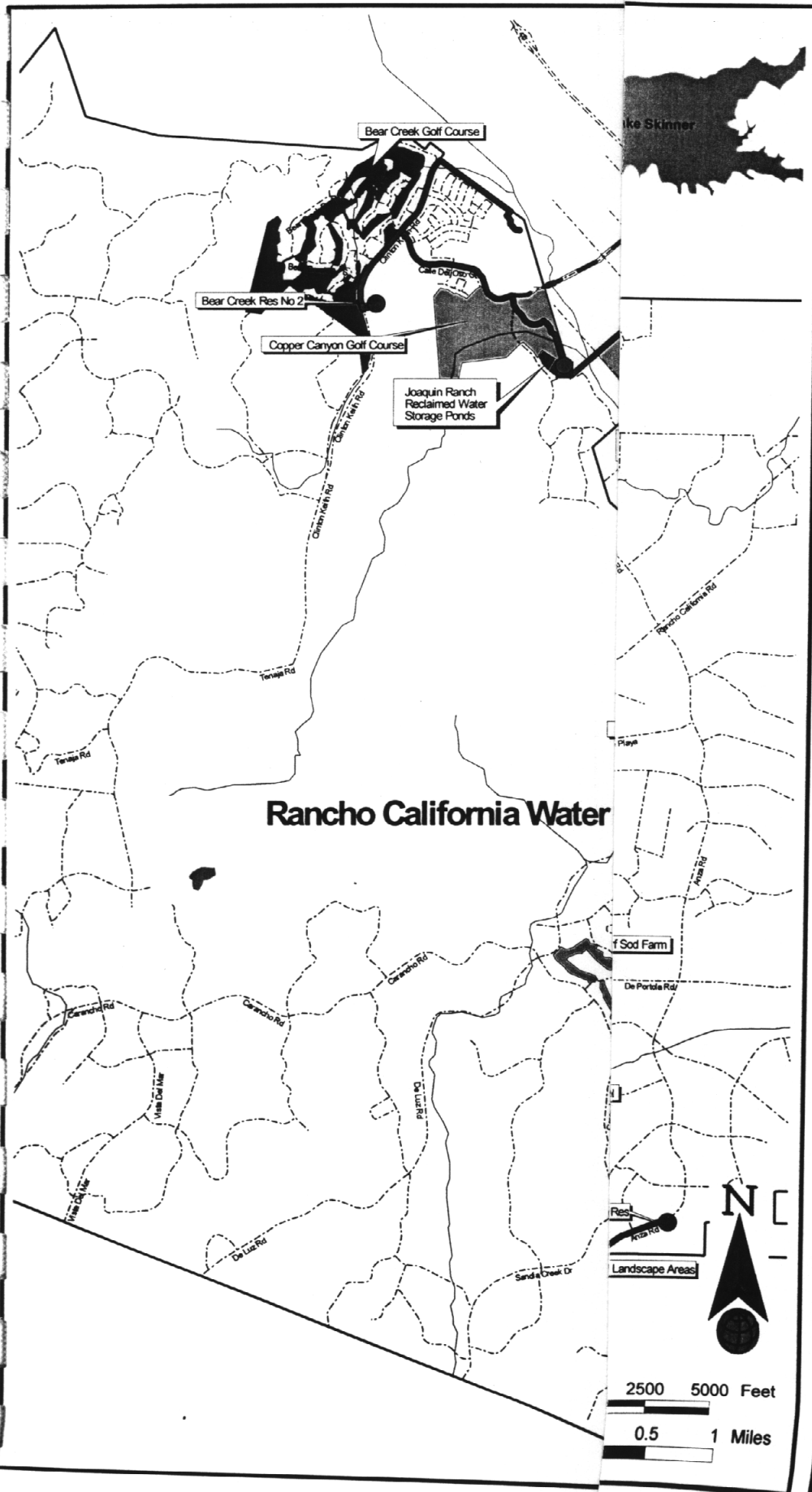
RECLAIMED WATER USE

Order No. 94-92 and RCWD *Rules and Regulations for the Reclaimed Water Users* specify procedures for adding new reclaimed water use sites within the RCWD service area. New prospective reclaimed water users are required to:

- ▶ submit an application for a reclaimed water use permit, which includes a written preconstruction report of proposed reclaimed water facilities and users,
- ▶ identify an onsite supervisor responsible for the installation, operation, and maintenance of onsite reclaimed water distribution facilities,
- ▶ under supervision of RCWD, develop and implement of a cross-connection control inspection plan for potable and reclaimed water systems, and
- ▶ receive final site inspection and approval by RCWD.

To date, RCWD has approved and connected over 20 reclaimed water users representing approximately 50 reclaimed water use sites. Figure 1 (page 4) presents the overall location of approved reclaimed water users within the RCWD service area. Table 1 (page 5) summarizes reclaimed water demands of existing RCWD customers. The table also summarizes demands for customers which are anticipated to be approved for reclaimed water use in the remainder of 1999 or in year 2000.

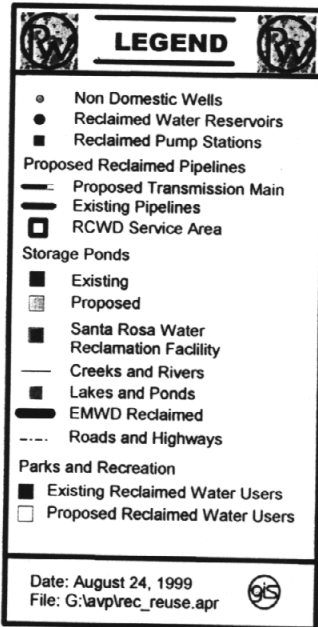
As shown in Table 1, total reclaimed water use within the RCWD service area for year 2000 is projected at approximately 3,500 acre-feet, a total significantly below the 11,200 acre-feet limit established in Order No. 94-92. It should be noted, however, that peak summer water demands may be significantly higher than the average annual demands shown in Table 1.



Rancho California Water District



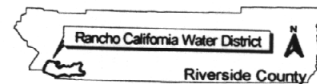
Figure 1
Location of Approved
RCWD Reuse Sites



Area Shown Enlarged:



Planning and Capital Projects
Geographic Information Services
Checked By: A. Webster
Prepared By: M. Heslin



The information shown on this map was compiled from the Riverside County GIS and the Rancho California GIS. The land base and facility information on this map is for display purposes only and should not be relied upon without independent verification as to its accuracy. Riverside County and Rancho California Water District will not be held responsible for any claims, losses or damages resulting from the use of this map.

As a result, allowing the RCWD Santa Rosa WRF to contribute up to 5.0 mgd of reclaimed water will significantly increase RCWD's flexibility in meeting existing and projected peak summer reclaimed water demands.

Table 1
Summary of Existing and Projected Reclaimed Water Demands
RCWD Service Area

Reclaimed Water Customer	Approximate Annual Reclaimed Water Demand
Existing Reclaimed Water Customers	
Murrieta Pony League ¹	10
Bear Creek Golf Course ¹	480
Quality Turf Sod Farm ^{1,2}	520
Temecula Creek Golf Course ¹	660
Redhawk Golf Course ¹	540
Redhawk landscaping ¹ (CSA 143)	280
United Methodist Church ¹	10
El Chimisal Reservoir landscaping ¹	5
Construction meters ¹	60
Other miscellaneous sites ^{1,3}	5
Users Connected in 1999	
Chaparral High School ⁴	110
Temecula Valley High School ⁴	100
James Day Middle School ⁴	30
Redhawk Park ⁴	15
RCWD headquarters ⁴	5
CALTRANS I-15 and Rte. 79 interchange ⁴	5
Connections Projected for Year 2000	
Temeku Golf Course ⁴	530
Rancho California Sports Park ⁴	50
Murrieta Valley High School ⁴	50
Thompson Middle School ⁴	20
TOTAL RECLAIMED WATER USE⁵	3,485

- 1 Based on observed 1998 reclaimed water use at the site, rounded to nearest 10 AF/year or one significant figure.
- 2 Quality Turf Sod Farm use projected to end at end of 1999.
- 3 Additional miscellaneous sites with less than 5 AF/year net use.
- 4 Projected on the basis of site acreage and anticipated irrigation rates.
- 5 Total annual reuse of 3,485 acre-feet per year corresponds to an annual reclaimed water flow of approximately 3.1 mgd.

SYSTEM OPERATIONS

As noted, it is proposed that the Regional Board modify Order No. 94-92 to allow the Santa Rosa WRF to treat and reuse up to 5.0 mgd of reclaimed water. If this proposed permit modification is approved, under normal operations RCWD would continue to discharge 2.0 mgd of reclaimed water to Murrieta Creek, per the requirements of Order No. 96-54 (NPDES CA0108821). Santa Rosa WRF reclaimed water flows in excess of 2.0 mgd would be directed to the regional reclaimed water distribution system or (in wet weather) to the RCWD percolation/storage ponds. At the 5.0 mgd treatment capacity of the Santa Rosa WRF, an annual average of up to 3.0 mgd (approximately 3,360 acre-feet per year) could be directed from the Santa Rosa WRF to regional reclaimed water uses. Figure 2 presents a schematic of "typical" proposed reclaimed water operations when the 2.0 mgd stream discharge is operational.

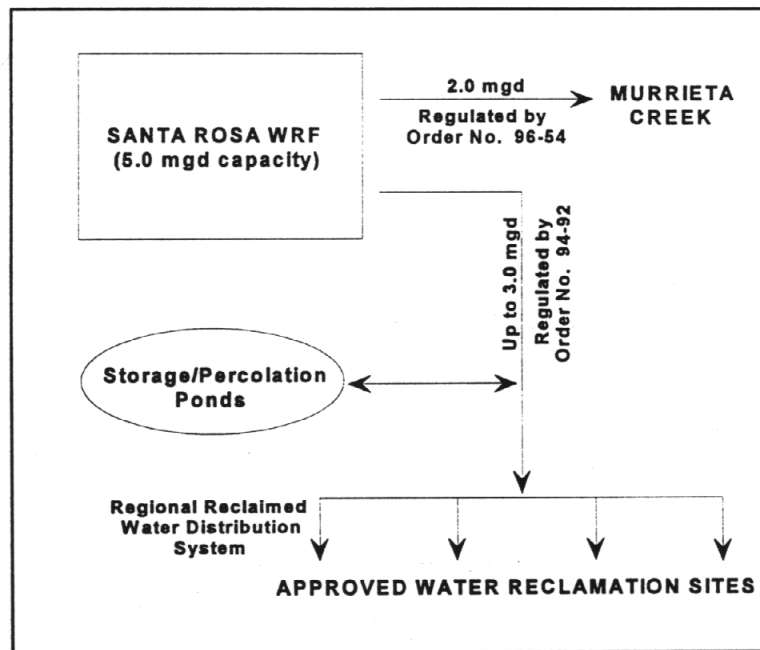


Figure 2 Schematic of RCWD Reclaimed Water Operations
Typical Operating Conditions

Order No. 96-54 (NPDES CA0108821) requires RCWD to maintain alternate means of reclaimed water reuse or disposal in the event that RCWD cannot comply with the established effluent or receiving water standards. Circumstances requiring temporary suspension of the stream discharge could include planned or unplanned maintenance at the Santa Rosa WRF, temporary non-compliance with stream discharge or receiving water standards, or activities/conditions within the Murrieta Creek channel which may necessitate suspension of the discharge.

In the event the stream discharge must be temporarily suspended, the percolation/storage ponds and reclaimed water distribution system regulated by Order No. 94-92 represents RCWD's alternate means of disposal. With the proposed permit modifications, reclaimed water flows of up to 5.0 mgd would be discharged to the RCWD regional reclaimed water use system (or to storage/percolation ponds) during times when it is not possible to discharge to Murrieta Creek. Figure 3 presents a schematic of reclaimed water operations during times the stream discharge is not possible.

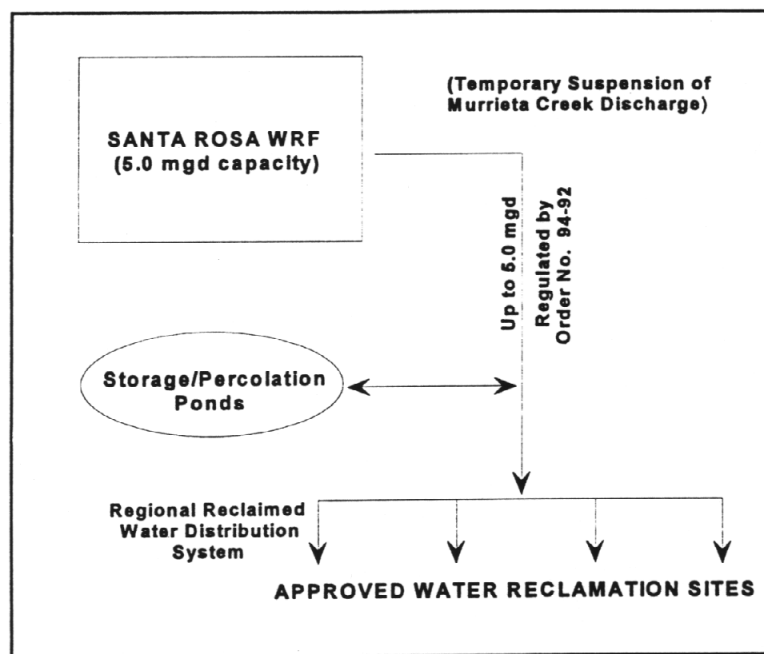


Figure 3 Schematic of RCWD Reclaimed Water Operations
Temporary Suspension of Stream Discharge

SEASONAL STORAGE FACILITIES

Santa Rosa WRF reclaimed water flows in excess stream discharge and other reclaimed water demands would be discharged to seasonal storage/percolation ponds. As noted, RCWD is in the process of constructing a new storage pond. Pond No. 4 is to be located south of Elm Street, between the existing Murrieta Creek flood channel and existing Pond Nos. 1 and 2. Figure 4 (page 8) presents the location of Pond No. 4.

Table 2 (page 8) summarizes the storage capacity of the RCWD reclaimed water ponds. With the completion of Pond No. 4, total RCWD reclaimed water storage capacity would be increased to approximately 1,285 acre-feet.

For reclaimed water irrigation operations, the *Water Quality Control Plan for the San Diego Region* (Basin Plan) requires either (1) an alternate means of disposal or (2) 84 days of seasonal storage capacity. This 1,285 acre-foot storage capacity shown in Table 2 corresponds to 84 days of storage for a flow of approximately 4.99 mgd.

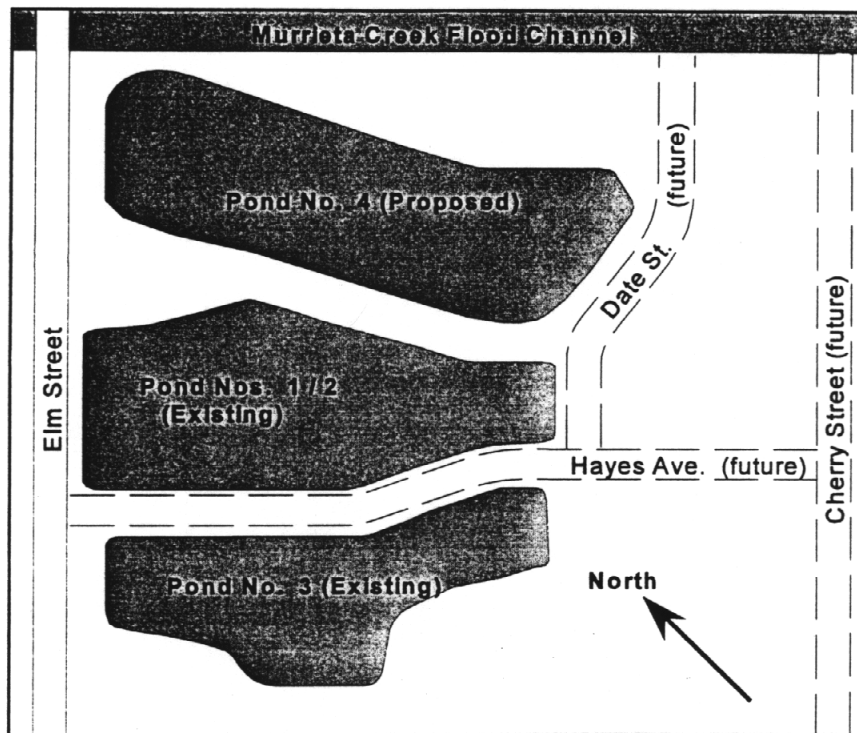


Figure 4 Location of Proposed Pond No. 4

Table 2
Summary of Seasonal Storage Capacity
RCWD Water Reclamation Storage Ponds

Facility	Water Depth at Maximum Storage Capacity	Approx. Maximum Storage Capacity (Acre-feet)
Santa Rosa WRF Pond Nos. 1 & 2	16	499
Santa Rosa WRF Pond No. 3	16	239
Santa Rosa WRF Pond No. 4	15	412
Storage pond at former San Joaquin WRF site	NA	135
Totals	---	1,285

In addition to this storage capacity, the unlined RCWD ponds at SRWRF allow reclaimed waters (in accordance with the requirements of Order No. 94-92) to percolate to groundwater. (The pond at the former San Joaquin WRF site is lined, and does not contribute to groundwater recharge.) Total percolation capacity of the SRWRF ponds is estimated to be 1.0 mgd or more. Prior to implementing the regional reclaimed water distribution system, percolation to groundwater represented RCWD's sole means of disposing of SRWRF reclaimed waters. Regional Board Order No. 87-125 regulated this SRWRF percolation operation, and allowed up to 1.0 mgd of percolation at Santa Rosa WRF. With the construction of Pond No. 4, the overall volume and surface area of the SRWRF percolation ponds is increased. As a result, it is probable that the overall percolation capacity of the SRWRF ponds is greater than the originally permitted 1.0 mgd discharge.

Table 3 summarizes RCWD's ability to handle reclaimed water flows in the event that stream discharge is not possible and no reclaimed water demands exist. As shown in the table, when RCWD's seasonal storage and groundwater percolation capabilities are combined, RCWD maintains "fail-safe" storage/disposal facilities adequate for a reclaimed water flow significantly in excess of the Santa Rosa WRF 5.0 mgd capacity.

Table 3
Summary of Fail-Safe¹ Disposal Capacity
RCWD Santa Rosa WRF

Fail-Safe Element	Fail-Safe ¹ Disposal/Storage Capacity
Seasonal Storage Capacity ²	4.99 mgd
Percolation Pond Capacity ³	> 1.0 mgd
Total Fail-Safe Capacity	> 5.0 mgd

- 1 Disposal or storage capacity available for use during times when stream discharge is not possible, and no reclaimed water irrigation demands exist.
- 2 As shown in Table 2, RCWD maintains a total reclaimed water storage capacity of approximately 1,285. The San Diego Region Basin Plan requires 84 days of seasonal storage for reclaimed water irrigation operations. The 1,285 acre-feet storage capacity would provide 84 days of storage for a total flow of approximately 4.99 mgd.
- 3 Prior to the implementation of reclaimed water reuse, RCWD exclusively disposed of Santa Rosa WRF effluent by percolating the effluent to groundwater. Regional Board Order No. 87-125 regulated this discharge, and allowed RCWD to percolate up to 1.0 mgd of reclaimed water to groundwater in the SRWRF ponds. Since the percolation pond sizes have been increased since Order No. 87-125, it is probable that the ponds can handle flows greater than the 1.0 mgd allowed by Order No. 87-125.

CERTIFICATION AND TITLE 22 REPORTS

In accordance with Order No. 94-92, a certification report entitled *Santa Rosa Water Reclamation Certification Report* was submitted to the Regional Board on December 8, 1994. The certification report documented that the Santa Rosa WRF is capable of complying with the requirements of Order No. 94-92 for a total flow of 5.0 mgd.

Also submitted to the Regional Board and State Department of Health Services (DHS) on December 8, 1994 was a Title 22 Engineering report entitled *Santa Rosa Water Reclamation Facility Title 22 Engineering Report*. The submitted Title 22 Engineering report concluded that the Santa Rosa WRF could comply with DHS treatment, disinfection, and reliability criteria for a total plant flow of 5.0 mgd.

CEQA COMPLIANCE

No modifications to Santa Rosa WRF treatment facilities are proposed as part of this report of waste discharge. The 5.0 mgd Santa Rosa WRF treatment facilities have been certified by RCWD to be in compliance with requirements of the California Environmental Quality Act (CEQA). The Notice of Determination for the 5.0 mgd Santa Rosa WRF project was filed by RCWD on February 16, 1993. The Notice stated that a Negative Declaration was prepared for the 5.0 mgd regional reclaimed water use project pursuant to the provisions of the CEQA. A copy of the Notice of Determination was submitted by RCWD to the Regional Board prior to the adoption of Order No. 94-92.

Minor modifications to the Santa Rosa WRF and regional reclamation water system, as well as the construction of Pond No. 4, were addressed by RCWD in a 1997 Supplemental Environmental Impact Report (EIR). After receipt of public comments on the Supplemental EIR, RCWD certified that system improvements (including the construction and operation of Pond No. 4) are in compliance with CEQA. The Notice of Determination documenting CEQA compliance for these facilities was filed by RCWD on September 11, 1997. (A copy of this Notice of Determination is attached as an appendix to this report of waste discharge.)

PROJECTED IMPACTS ON REUSE OPERATIONS

No changes in stream discharge operations or reclaimed water use or disposal operations are proposed as part of this request to modify Order No. 94-92. The current documented secondary and tertiary treatment capacity of Santa Rosa WRF facilities is 5.0 mgd, and the proposed modifications to Order No. 94-92 would not result in this capacity being exceeded.

The proposed modifications to Order No. 94-92 would not result in any impacts or modifications to existing stream discharge operations regulated under Order No. 96-54 (NPDES CA0108821). Further, the total amount of reclaimed water used within the RCWD service area would not be changed by the proposed modifications of Order No. 94-92. Order No. 94-92 limits overall reclaimed water use within the RCWD service area to 11,200 acre-feet per year, and this report of waste discharge does not propose changing this 11,200 acre-foot limit.

By modifying Order No. 94-92 to allow a Santa Rosa WRF reclaimed water flow capacity of 5.0 mgd, RCWD would achieve additional flexibility in managing available RCWD and EMWD reclaimed water resources. This could allow RCWD to meet reclaimed water demands within the District service area even when insufficient EMWD reclaimed water flows are available. (Note that RCWD does not have access to all available EMWD Temecula Valley WRF flows; a portion of the EMWD flow is exported out of the RCWD service area to meet demands within the EMWD service area.) The proposed modification of Order No. 94-92 would also allow RCWD greater flexibility in responding to emergency or other conditions under which the District's stream discharge is temporarily interrupted or suspended.

Since the proposed revisions to Order No. 94-92 will not result in any increase in reclaimed water discharges within the RCWD service area (over and above the 11,200 acre-feet per year already allowed per Order No. 94-92), the proposed revisions are in keeping with the State of California non-degradation policy and other applicable water quality policies. It is requested that the Regional Board implement the proposed modifications to Order No. 94-92.

Part III
Notice of Determination

NOTICE OF DETERMINATION

FILE

00754

To: Office of Planning and Research
1400 Tenth Street, Room 121
Sacramento, CA 95814

FILED
RIVERSIDE COUNTY

From: Rancho California Water District
42135 Winchester Road
Post Office Box 9017
Temecula, CA 92589-9017

SEP 11 1997

County Clerk
County of Riverside
3470 12th Street
Riverside, CA 92501

By

C. Seager

C. Seager
Deputy

Subject: Filing of Notice of Determination in compliance with Section 21108 or 21152 of the Public Resources Code

Project Title: Rancho California Water and Wastewater Facilities Master Plan Update

SCH#: 97031053 Lead Agency Contact: Andrew Webster, P.E. Tel#: (909) 676-4101

Project Location: Rancho California Water District, Southwest Riverside County, California

Project Description:

The Rancho California Water District (District) provides water and wastewater service to a population of 80,000 in southwest Riverside County. Water, Reclaimed Water, and Wastewater Master Plans were adopted in 1991 proposing both short- and long-term improvements to water supply, water distribution, sewage collection, and wastewater treatment. A program Environmental Impact Report (EIR) analyzing the environmental impacts of the proposed improvements, was prepared in 1991 in conjunction with the 1991 Master Plans. As proper planning dictates, the District has performed updates to the Water and Wastewater Master Plans to identify changes appropriate for current conditions and future growth projections. Specific reclaimed water projects have also been incorporated into the Water Master Plan update. The updates do not propose to add any major new facilities; however, several small new projects are planned. Some projects included in the previous Master Plans have been modified or canceled. Additionally, environmental baseline conditions have changed, which may alter the nature and context of environmental impacts identified in the 1991 EIR. Therefore, a Supplemental EIR (SEIR) was prepared for the updates. The types of projects identified in the Water Master Plan include the construction of pump stations, transmission mains, and storage tanks. Proposed sewer projects in the Wastewater Master Plan include the construction of both trunk sewers and lift stations, and the expansion of the existing Santa Rosa Water Reclamation Facility. Potential impacts associated with these modifications to the previous Master Plans will be evaluated at a program level of detail in the SEIR. Additionally, a reclaimed water transfer system, including four reclaimed water storage ponds, an algae treatment system, and an associated pump station will be addressed at a more detailed level of analysis.

This is to advise that the Lead Agency has approved the above-described project on September 11, 1997 and has made the following determinations regarding the above-described projects:

1. The project will not have a significant effect on the environment.
2. An Environmental Impact Report was prepared for this project pursuant to the provisions of CEQA.
3. Mitigation measures were made a condition of the approval of the project.
4. A Statement of Overriding Considerations was adopted for this project.

This is to certify that the Final SEIR with comments and responses and record of project approval is available to the General Public at: Rancho California Water District, located on 42135 Winchester Road, Temecula, CA 92590.

Andrew L. Webster
Andrew L. Webster, P.E.
Planning & Capital Projects Manager

COUNTY CLERK
Hog Declaration/Notice Determination
Filed per P.R.C. 21152
POSTED

9/11/97

Date

SEP 11 1997

Date received for filing and posting at OPR:

(97/AW-eb094/FEG)

Received: 10-14-97
By: *C. Seager* Dep.
County of Riverside, State of California

